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ATTORNEY DOCKET NO. 21101.0047U2
PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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| In re Application of |) | |
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| FLANIGAN <i>ET AL.</i> |) | |
| |) | |
| Application No. 10/539,178 |) | Group Art Unit: Unassigned |
| National Phase of PCT/US03/40278 |) | |
| |) | Examiner: Unassigned |
| Filing Date: June 16, 2005 |) | |
| International Filing Date: December 17, 2003 |) | Confirmation No. 2241 |
| |) | |
| For: RAPID DIRECT SEQUENCE ANALYSIS OF |) | |
| MULTI-EXON GENES |) | |

INFORMATION DISCLOSURE STATEMENT

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

NEEDLE & ROSENBERG, P.C.
Customer Number 23859

December 14, 2005

Sir:

Pursuant to the requirements of 37 C.F.R. § 1.56, submitted herewith on the accompanying Information Disclosure Statement List is a listing of documents known to Applicants and/or their attorneys. In accordance with 37 C.F.R. §1.98(a)(2), copies of any cited U.S. patent or U.S. patent application publication documents are not enclosed. Copies of any cited foreign patent document and/or any non-patent publication are enclosed.

This Information Disclosure Statement is believed to be filed in a timely manner pursuant to 37 C.F.R. § 1.97(b)(3), in that a first Office Action on the merits of the present patent application has not yet been mailed to Applicants.

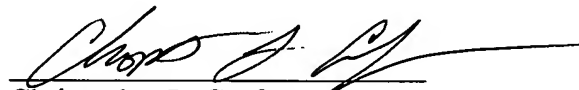
ATTORNEY DOCKET NO. 21101.0047U2
Application No. 10/539,178

Consideration of the cited documents and making the same of record in the prosecution of the above-referenced application are respectfully requested.

No fee is believed due; however, the Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-0629.

Respectfully submitted,

NEEDLE & ROSENBERG, P.C.



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CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence, including any items indicated as attached or included, is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.


Christopher L. Curfman

December 19, 2005
Date

INFORMATION DISCLOSURE STATEMENT LIST

(Use as many sheets as necessary)

Complete if Known

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| Application Number | 10/539,178 |
| Filing Date | June 16, 2005 |
| First Named Inventor | Flanigan |
| Group Art Unit | Unassigned |
| Examiner Name | Unassigned |

U.S. PATENT DOCUMENTS

| Examiner's Initials | Cite No. | Document No. | Date | Name | Class | Subclass | Filing Date (if appropriate) |
|---------------------|----------|--------------|----------|--------|-------|----------|------------------------------|
| | A1 | 6,235,478 | 05/22/01 | Koster | 435 | 6 | |
| | A2 | 6,043,031 | 03/28/00 | Koster | 435 | 6 | |

NON-PATENT DOCUMENTS

| Examiner's Initials | Cite No. | Non-Patent Citations (include Author, Title, Publisher, Relevant Pages, Date and Place of Publication) |
|---------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | A3 | Bashir <i>et al.</i> , "A Gene Related to <i>Caenorhabditis Elegans</i> Spermatogenesis Factor <i>fer-1</i> is Mutated in Limb-Girdle Muscular Dystrophy Type 2B," <i>Nat. Genet.</i> 20:37-42 (1998) |
| | A4 | Beggs <i>et al.</i> , "Detection of 98% of DMD/BMD Gene Deletions by Polymerase Chain Reaction," <i>Hum Genet</i> 86:45-48 (1990) |
| | A5 | Bennett <i>et al.</i> , "Detection of Mutations in the Dystrophin Gene Via Automated DHPLC Screening and Direct Sequencing," <i>BMC Genet</i> 2:17 (2001) |
| | A6 | Bugert <i>et al.</i> , "Exon Amplification Restriction Ligation (EARL): An Efficient Strategy for Direct Sequencing of Exons," <i>Biotechniques</i> 30(3):490, 492, 494, 496 (2001) |
| | A7 | Chamberlain <i>et al.</i> , "Multiplex PCR for the Diagnosis of Duchenne Muscular Dystrophy. In: Innis MA, Gelfand DH, Sninsky JJ, White TJ (eds) PCR Protocols: A Guide to Methods and Applications," <i>Academic Press</i> , San Francisco, pp 272-281 |
| | A8 | Connell <i>et al.</i> , "Automated DNA Sequence Analysis," <i>Biotechniques</i> 5(4): 342-348 (1987) |
| | A9 | Cremonesi <i>et al.</i> , "Double-Radiant DGGE for Optimized Detection of DNA Point Mutations," <i>Biotechniques</i> 22:326-30 (1997) |
| | A10 | Emery, "Population Frequencies of Inherited Neuromuscular Diseases--A World Survey," <i>Neuromuscul Disord</i> 1(1):19-29 (1991) |
| | A11 | Ewing <i>et al.</i> , "Base-Calling of Automated Sequencer Traces Using Phred. I. Accuracy Assessment," <i>Genome Res</i> 8:175-185 (1998) |
| | A12 | Feng <i>et al.</i> , "Mutations in the Dystrophin Gene Are Associated With Sporadic Dilated Cardiomyopathy," <i>Mol Gen Metab</i> 77:119-126 (2002) |
| | A13 | Guo <i>et al.</i> , "Fluorescence Analysis of Genetic Polymorphisms by Hybridization with Oligonucleotide Arrays on Glass Supports," <i>Nucleic Acids Res</i> 22(24):5456-5465 (1994) |
| | A14 | Kent <i>et al.</i> , "The Human Genome Browser at UCSC," <i>Genome Res</i> 12:996-1006 (2002) |
| | A15 | Khrapko <i>et al.</i> , "Hybridization of DNA With Oligonucleotides Immobilized in a Gel: A Convenient Method For Recording Single Base Replacements," <i>Molecular Biology (Mosk)</i> (USSR)25:718-730 (1991) ABSTRACT |
| | A16 | Lander <i>et al.</i> , "Initial Sequencing and Analysis of the Human Genome," <i>Nature</i> 409:860-921 |
| | A17 | Lang <i>et al.</i> , "Extensive Genetic Polymorphism in the Human CYP2B6 Gene With Impact On Expression and Function in Human Liver," <i>Pharmacogenetics</i> 11:399-415 (2001) |
| | A18 | Lu <i>et al.</i> , "Massive Idiosyncratic Exon Skipping Corrects The Nonsense Mutation in Dystrophic Mouse Muscle and Produces Functional Revertant Fibers by Clonal Expansion," <i>J Cell Biol</i> 148(5):985-995 (2000) |
| | A19 | Mendell <i>et al.</i> , "Diagnosis of Duchenne Dystrophy by Enhanced Detection of Small Mutations," <i>Neurology</i> 57:645-650 (2001) |

Examiner Signature:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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| | | Group Art Unit | Unassigned |
| | | Examiner Name | Unassigned |
| NON-PATENT DOCUMENTS | | | |
| Non-Patent Citations (include Author, Title, Publisher, Relevant Pages, Date and Place of Publication) | | | |
| | A20 | Miller and Hoffman "Molecular diagnosis and modern management of Duchenne muscular dystrophy," <i>Neurol Clin</i> 12(4):699-725 (1994) | |
| | A21 | Nielson <i>et al.</i> , "Sequence-selective recognition of DNA by strand displacement with a thymine-substituted polyamide," <i>Science</i> 254(5037):1497-1500 (1991) | |
| | A22 | Pease <i>et al.</i> , "Light-Generated Oligonucleotide Arrays For Rapid DNA Sequence Analysis," <i>Proc Natl Acad Sci</i> 91:5022-5026 (1994) | |
| | A23 | Richard <i>et al.</i> , "Calpainopathy - A Survey of Mutations and Polymorphisms," <i>Am. J. Hum. Genet.</i> 64:1524-40 (1999) | |
| | A24 | Roberts <i>et al.</i> "Searching for the 1 in 2,400,000: A Review of Dystrophin Gene Point Mutations," <i>Hum Mutat</i> 4:1-11 (1994) | |
| | A25 | Roest <i>et al.</i> , "Protein Truncation Test (PTT) To Rapidly Screen The DMD Gene For Translation Terminating Mutations," <i>Neuromuscul Disord</i> 3(5/6):391-394 (1993) | |
| | A26 | Stimpson <i>et al.</i> , "Real-Time Detection of DNA Hybridization and Melting on Oligonucleotide Arrays by Using Optical Wave Guides," <i>Proc. Natl. Acad. Sci.</i> 92:6379-6383 (1995) | |
| | A27 | Trainor, "DNA Sequencing, Automation, and the Human Genome", <i>Anal. Chem.</i> , 62:418-426 (1990) | |
| | A28 | Tuffery-Giraud <i>et al.</i> , "Point Mutations in the Dystrophin Gene: Evidence for Frequent Use of Cryptic Splice Sites As A Result of Splicing Defects," <i>Hum Mutat</i> 14:359-368 (1999) | |
| | A29 | White <i>et al.</i> , "Comprehensive Detection of Genomic Duplications and Deletions in the DMD Gene, By Use of Multiplex Amplifiable Probe Hybridization," <i>Am J Hum Genet</i> 71:365-74 (2002) | |
| | A30 | Wilton <i>et al.</i> , "Dystrophin Gene Transcripts Skipping the mdx Mutation," <i>Muscle Nerve</i> 20:728-34 (1997) | |
| Examiner Signature: | | Date Considered: | |
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